

GAW 1645

PTO/SB/21 (08-00)

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PATENT & TRADEMARK OFFICE

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Application Number	09/650,337
Filing Date	August 28, 2000
First Named Inventor	William Dower
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	16528A000461

Total Number of Pages in This Submission

1

ENCLOSURES (check all that apply)

- ☐ Fee Transmittal Form
- ☐ Fee Attached
- ☐ Amendment / Response
- ☐ After Final
- ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/Incomplete Application
- ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

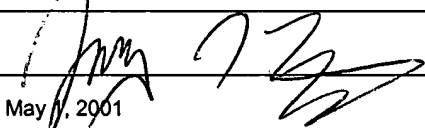
- ☐ Assignment Papers (for an Application)
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition Routing Slip (PTO/SB/69) and Accompanying Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s)

- ☐ After Allowance Communication to Group
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) (please identify below):
Form 1449

Remarks

The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm and Individual name	Townsend and Townsend and Crew LLP Jeffrey J. King	Reg No. 38,515
Signature		
Date	May 1, 2001	

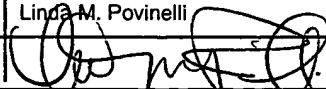
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TOWNSEND and TOWNSEND and CREW LLP

By: 

Attorney Docket No.: 16528A-000461US
Client Reference No.: 1003E (Parent)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

William J. Dower, et al.

Application No.: 09/650,337

Filed: August 28, 2000

For: PEPTIDE LIBRARY AND
SCREENING SYSTEMS

Examiner: Unassigned

Art Unit: 1645

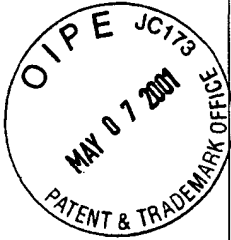
INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. In accordance with 37 CFR §1.98(d), copies of the references can be found in Application No. 08/914,403 filed August 19, 1997 (now abandoned); and 07/541,108, filed June 20, 1990, now U.S. Patent No. 5,723,286 (Attorney Docket No. 16528A-000461US). It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Applicants believe that their invention as claimed is patentable over the above references taken alone or in any combination. As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted



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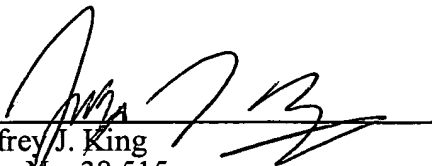
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or that this statement encompasses all the possible relevant information. No inference should be drawn as to the pertinence of the references based on the order in which they are presented.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Dated: May 1, 2001


Jeffrey J. King
Reg. No. 38,515

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JJK:imp

SE 5008175 v1



FORM PTO-1449 (Modified)		Attorney Docket No.: 16528A-000461US		Application No.: 09/650,337	
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: William J. Dower, et al.		Filing Date: August 28, 2000	
Reference Designation		U.S. PATENT DOCUMENTS			
Examiner Initial	Document No.	Date	Name	Class	Filing Date (If Appropriate)
AA	4,359,535	11/16/82	Pieczenik		
AB	4,593,002	06/03/86	Dulbecco		
AC	4,833,092	05/23/89	Geysen		
AD	4,910,140	03/20/90	Dower		
AE	5,096,815	03/17/92	Ladner et al.		
AF	5,223,409	06/29/93	Ladner et al.		
FOREIGN PATENT DOCUMENTS					
	Document No.	Date	Country	Class	Translation (Yes/No)
AG	2,183,661	06/10/87	GB		
AH	87/01374	03/12/87	WO		
AI	88/05085	07/14/88	WO		
AJ	88/06630	09/07/88	WO		
AK	89/06694	07/27/89	WO		
AL	90/02809	03/22/90	WO		
AM	90/05144	05/17/90	WO		
AN	90/14424	11/29/90	WO		
AO	90/14430	11/29/90	WO		
AP	90/14443	11/29/90	WO		
AQ	91/17271	11/14/91	WO		
AR	91/18980	12/12/91	WO		
AS	92/01047	01/23/92	WO		
AT	92/07077	04/30/92	WO		
AU	92/09690	06/11/92	WO		
AV	90/15677	09/17/92	WO		
AW	92/15679	09/17/92	WO		
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)					
AX	Aruffo and Seed (1987), <u>Proc. Natl. Acad. Sci. USA</u> 84:8573-8577, "Molecular cloning of a CD28 cDNA by a high-efficiency COS cell expression system"				
AY	Barbas et al. (1991), <u>Proc. Natl. Acad. Sci. USA</u> 88:7978-7982, Assembly of combinatorial antibody libraries on phase surfaces: The gene III site"				
AZ	Barrett et al. (1992), <u>Anal. Biochem.</u> 204:357-364, "Selective enrichment and characterization of high affinity ligands from collections of random peptides on filamentous phage"				
BA	Bass et al. (1990), <u>Proteins: Structure, Function, and Genetics</u> 8:309-314, "Hormonephage: An enrichment method for variant proteins with altered binding properties"				
EXAMINER			DATE CONSIDERED		

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		Filing Date: August 28, 2000	Group:
BB	Better et al. (1988), <u>Science</u> 240:1041-1043, "Escherichia coli secretion of an active chimeric antibody fragment"		
BC	Boeke and Model (1982), <u>Proc. Natl. Acad. Sci. USA</u> 79:5200-5204, "A prokaryotic membrane anchor sequence: Carboxyl terminus of bacteriophage fi gene III protein retains it in the membrane"		
BD	Bottger (1988), <u>BioTechniques</u> 6:878-80, "High-efficiency generation of plasmid cDNA libraries using electro-transformation"		
BE	Cesareni (1992), <u>FEBS Letters</u> 307:66-70, "Peptide display on filamentous phage capsids"		
BF	Cwirla et al. (1990), <u>Proc. Natl. Acad. Sci. USA</u> 87:6378-6382, "Peptides on phage: A vast library of peptides for identifying ligands"		
BG	de la Cruz et al. (1988), <u>J. Biol. Chem.</u> 263(9):4318-4322, "Immunogenicity and epitope mapping of foreign sequences via genetically engineered filamentous phage"		
BH	Devlin et al. (1990), <u>Science</u> 249:404-406, "Random peptide libraries: A source of specific protein binding molecules"		
BI	Dower et al. (1988), <u>Nucl. Acids Res.</u> 16(13):6127-6145, "High efficiency transformation of E. coli by high voltage electroporation"		
BJ	Felici et al. (1991), <u>J. Mol. Biol.</u> 222:301-310, "Selection of antibody ligands from a large library of oligopeptides expressed on a multivalent exposition vector"		
BK	Garrard et al. (1991), <u>Bio/Technology</u> 9:1373-1377, "FAB assembly and enrichment in a monovalent phage display system"		
BL	Geysen et al. (1987) <u>J. Immunol. Meth.</u> 102:259-274, "Strategies for epitope analysis using peptide synthesis"		
BM	Goldsmith and Konigsberg (1977), <u>Biochem.</u> 16(12):2686-2694, "Adsorption protein of the bacteriophage fd: Isolation, molecular properties, and location in the virus"		
BN	Greenwood et al. (1991), <u>J. Mol. Biol.</u> 220:821-827, "Multiple display of foreign peptides on filamentous bacteriophage"		
BO	Harlow et al. (1988), <u>Antibodies: A Laboratory Manual</u> , Cold Spring Laboratory Press, Cold Spring Harbor, NY, pp. 23-35, "Antibody antigen interactions"		
BP	Heery and Dunican (1989), <u>Nucl. Acids Res.</u> 17(19):8006, "Improved efficiency M13 cloning using electroporation"		
BQ	Hoogenboom et al. (1991), <u>Nucl. Acids Res.</u> 19(15):4133-4137, "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains"		
BR	Huse et al. (1989), <u>Science</u> 246:1275-1281, "Generation of a large combinatorial library of the immunoglobulin repertoire in phage lambda"		
BS	Il'ichev et al. (1990), <u>Molekulyarnaya Biologiya</u> 24:530-535, "M13 filamentous bacteriophage in protein engineering"		
BT	Jacobs et al. (1990), <u>Nucl. Acids Res.</u> 18(6):1653, "High-efficiency electro-transformation of Escherichia coli with DNA from ligation mixtures"		
BU	Kang et al. (1991), <u>Proc. Natl. Acad. Sci. USA</u> 88:4363-4366, "Linkage of recognition and replication functions by assembling combinatorial antibody Fab libraries along phage surfaces"		
BV	McCafferty et al. (1990), <u>Nature</u> 348:552-555, "Phase antibodies: Filamentous phage displaying antibody variable domains"		
BW	Meo et al. (1983), <u>Proc. Natl. Acad. Sci. USA</u> 80:4084-4088, "Monoclonal antibody to the message sequence Tyr-Gly-Gly-Phe of opioid peptides exhibits the specificity requirements of mammalian opioid receptors"		
BX	Oliphant et al. (1986), <u>Gene</u> 44:177-183, "Cloning of random-sequence oligodeoxynucleotides"		
BY	Parmley and Smith (1988), <u>Gene</u> 73:305-318, "Antibody-selectable filamentous fd phage vectors: Affinity purification of target genes"		
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		Filing Date: August 28, 2000	Group:
BZ	Parmley and Smith (1989), <u>Adv. Exp. Med. Biol.</u> 251:215-218, "Filamentous fusion phage cloning vectors for the study of epitopes and design of vaccines"		
CA	Scott et al. (1990), in <u>Advances in Gene Technology: The Molecular Biology of Immune Diseases and the Immune Response</u> , Streilein et al. (eds), IRL Press, New York, pp. 224, "An epitope library"		
CB	Scott and Smith (1990), <u>Science</u> 249:386-390, "Searching for peptide ligands with an epitope library"		
CC	Shigekawa and Dower (1988), <u>BioTechniques</u> 6(8):742-751, "Electroporation of eukaryotes and prokaryotes: A general approach to the introduction of macromolecules into cells"		
CD	Skerra and Pluckthun (1988), <u>Science</u> 240:1038-1041, "Assembly of a functional immunoglobulin F _v Fragment in <i>Escherichia coli</i> "		
CE	Smith et al. (1990), <u>J. Cell. Biochem.</u> , Supp. 14C:246, abst. CK319 (19th Ann. Mgt., UCLA Symp. Mol. Cell. Biol., 3 Feb to 11 Mar), "An epitope library"		
CF	Smith (1985), <u>Science</u> 228:1315-1317, "Filamentous fusion phage: Novel expression vectors that display cloned antigens on the virion surface"		
CG	Ward et al. (1989), <u>Nature</u> 341:544-546, "Binding activities of a repertoire of single immunoglobulin variable domains secreted from <i>Escherichia coli</i> "		
CH	Wilson and Gough (1988), <u>Nucl. Acids Res.</u> 16(24):11820, "High voltage <i>E. coli</i> electro transformation with DNA following ligation"		
CI	Young and Davis (1983), <u>Science</u> 222:778-782, "Yeast RNA polymerase II genes: Isolation with antibody probes"		
CJ	Zacher et al (1980), <u>Gene</u> 9:127-140, "A new filamentous phage cloning vector: fd-tet"		
EXAMINER			
DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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